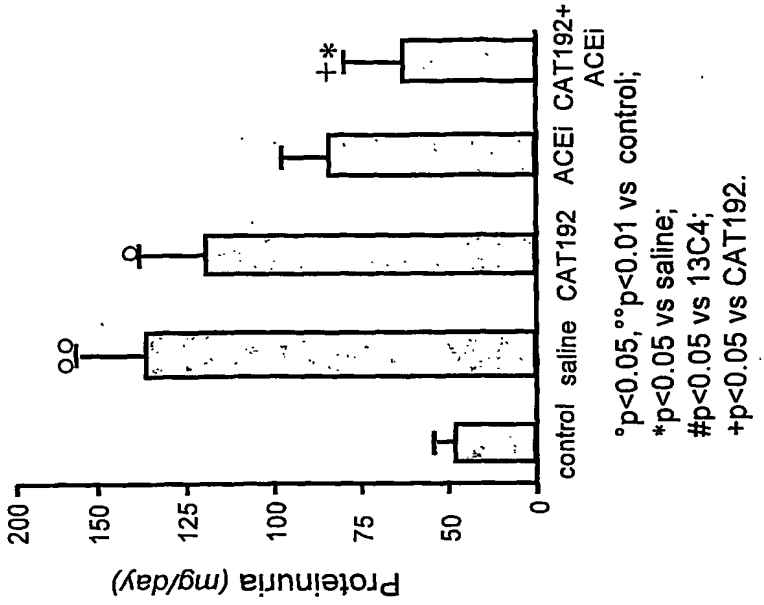

Proteinuria (mg/day)
200
150
125
100
75
50
0
control
saline
CAT192
ACEi
CAT192+ ACEi
°p<0.05, °°p<0.01 vs control;
*p<0.05 vs saline;
#p<0.05 vs 13C4;
+p<0.05 vs CAT192.

FIG. 1B

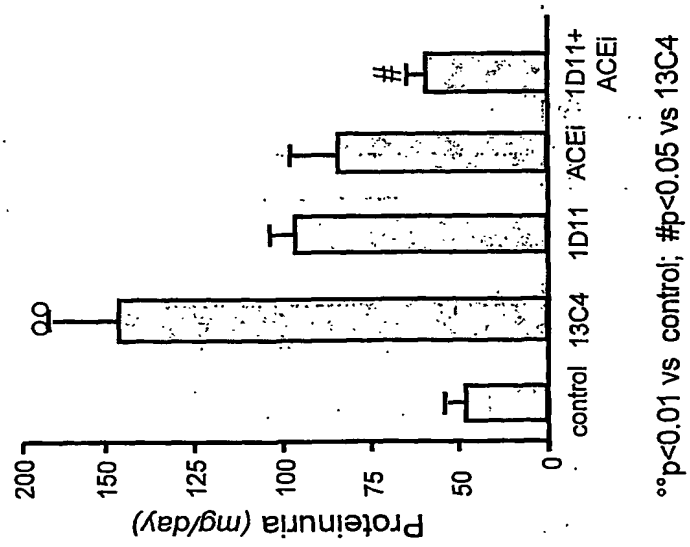

Proteinuria (mg/day)
200
150
125
100
75
50
0
control
13C4
1D11
ACEi
1D11+ ACEi
°°p<0.01 vs control; #p<0.05 vs 13C4

FIG. 1A

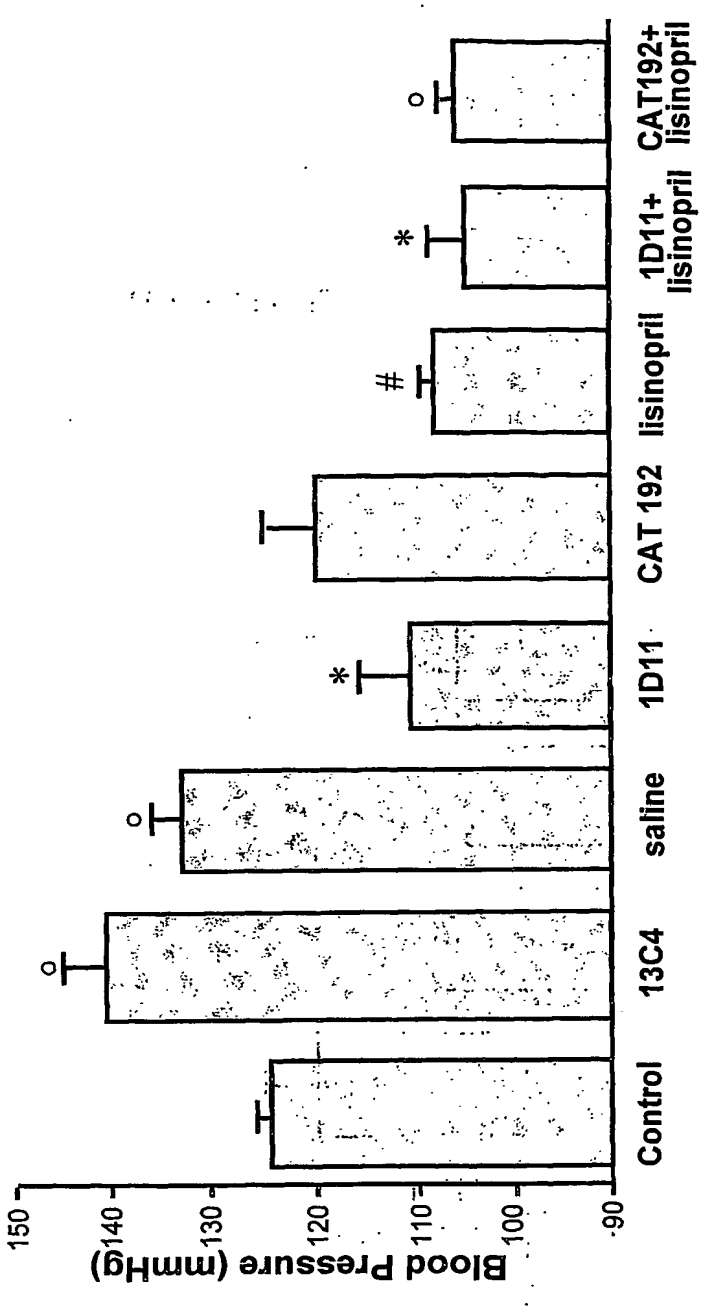

Blood Pressure (mmHg)
150
140
130
120
110
100
90
Control
13C4
saline
1D11
CAT 192
lisinopril
1D11+ lisinopril
CAT192+ lisinopril
°p<0.05 vs control
*p<0.05 vs control, 13C4
p<0.01 vs saline
#p<0.05 vs control,13C4, saline,CAT192
p<0.05 vs control, saline, CAT192

FIG. 2

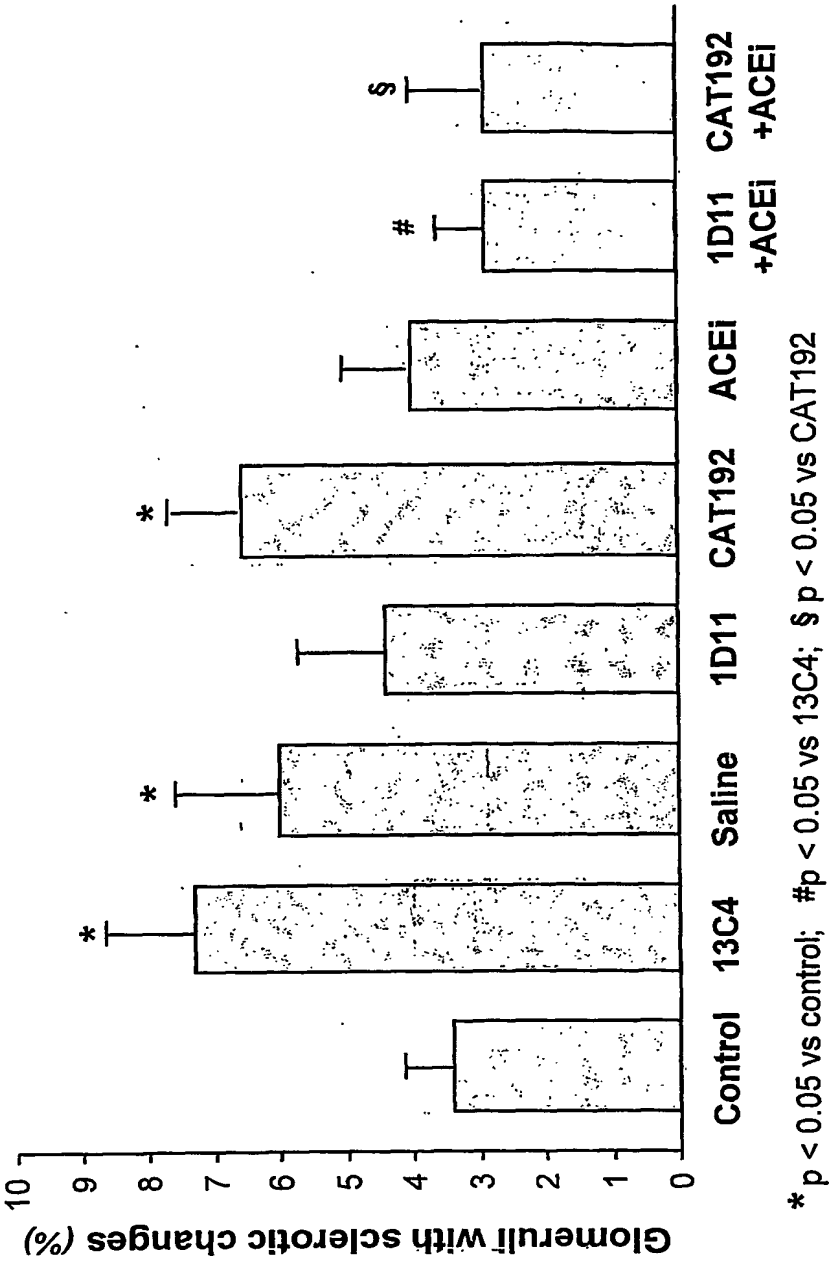
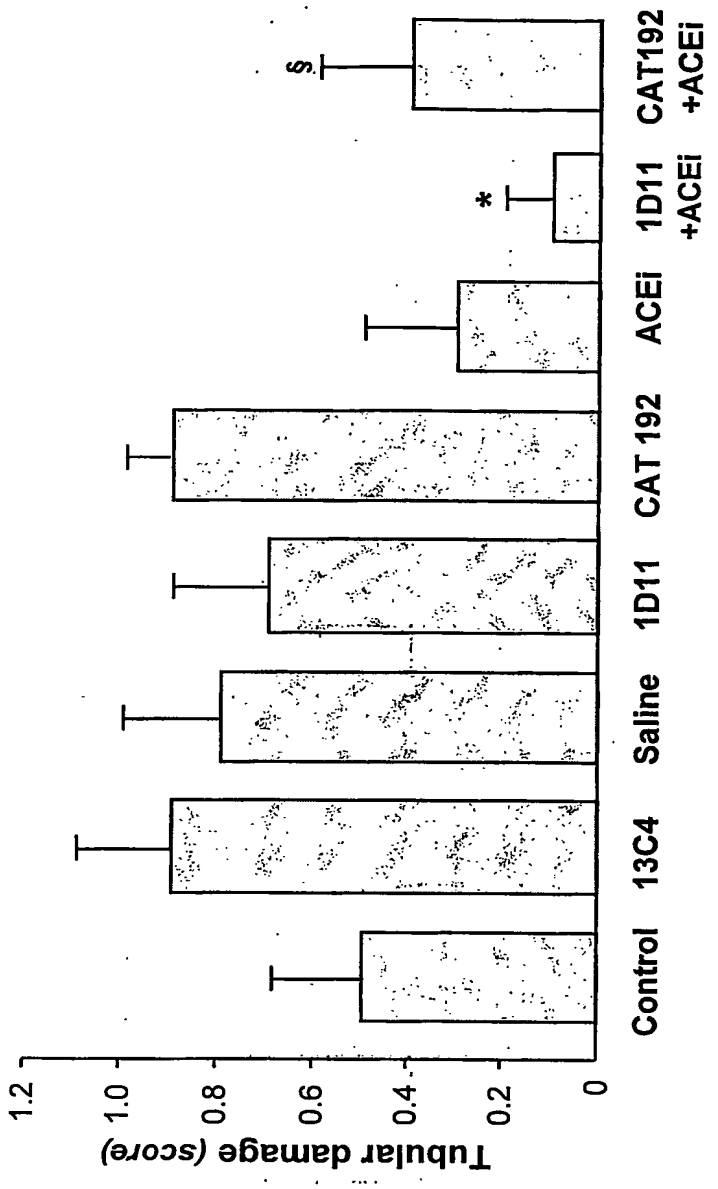

Glomeruli with sclerotic changes (%)
0
1
2
3
4
5
6
7
8
9
10
Control
13C4
Saline
1D11
CAT192
ACEi
1D11 +ACEi
CAT192 +ACEi
*
*
*
#
§
* p < 0.05 vs control; #p < 0.05 vs 13C4; § p < 0.05 vs CAT192

FIG. 3



* p < 0.05 vs saline; § p < 0.05 vs CAT192

FIG. 4

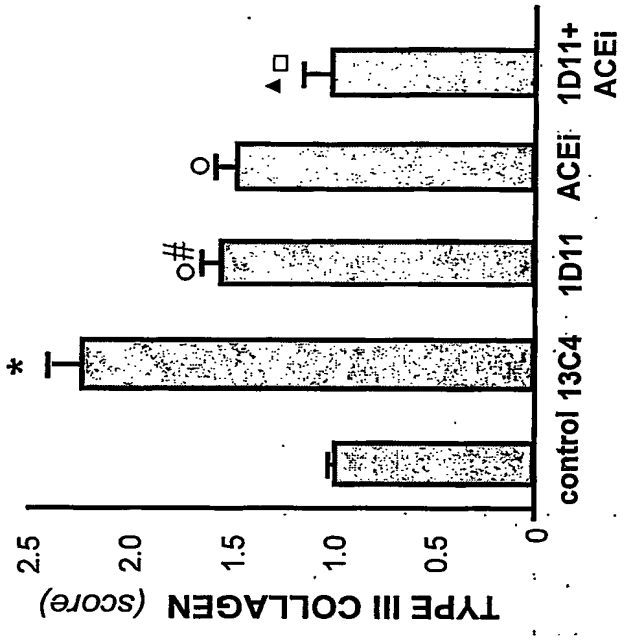

TYPE III COLLAGEN (score)
2.5
2.0
1.5
1.0
0.5
0
control
13C4
1D11
ACEi
1D11+ ACEi
*
#
o
▲
□
#p<0.05, *p<0.01 vs control
o p<0.01, p<0.05 vs 13C4
▲ □ p<0.05 vs 1D11

FIG. 5

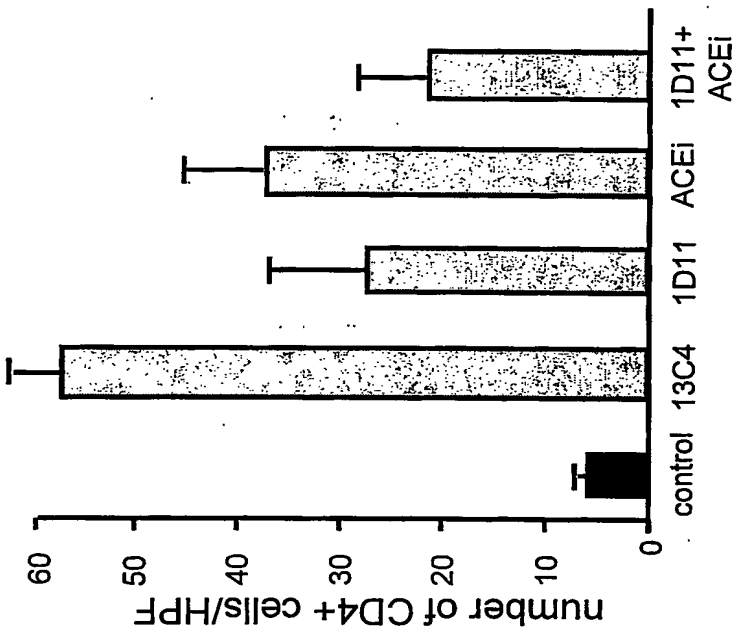

number of CD4+ cells/HPF
0
10
20
30
40
50
60
control
13C4
1D11
ACEi
1D11+ ACEi

FIG. 6

Proteinuria (mg/day) in diabetic rats (early phase)

Weeks	Basal	18	27*	36	45	52
13C4	20.23±0.99	27.95±1.76	61.47±2.80**	76.58±11.78**	126.04±13.46**	174.41±12.15**
1D11	19.78±1.33	27.36±2.10	62.55±3.82**	67.20±4.61**	68.88±6.82°	81.21±15.30°°
Enalapril	18.80±1.32	28.88±1.53	60.67±3.70**	57.48±3.56**	63.61±6.71°°	69.25±4.80°°
Control	19.93±1.78	21.90±0.88	29.63±1.59	39.06±2.42	53.48±2.28	55.31±2.64

* Before treatment.
Values are expressed as mean±SE. **p<0.01 vs control; °p<0.05,°°p<0.01 vs. 13C4.
Therapies were given from 27 to 52 weeks after disease induction by streptozotocin (60 mg/kg i.v.).

Fig. 7

Proteinuria (mg/day) in diabetic rats (late phase)

Weeks	Basal	18	27	36	45	52*	61
13C4	19.63±1.05	27.86±2.15	59.14±2.23**	79.04±7.11**	115.55±9.91**	160.87±12.22**	181.93±18.95**
1D11	21.87±2.10	28.82±4.23	57.07±6.75**	75.21±8.30**	112.58±7.72**	159.14±5.45**	149.22±20.05*
Enalapril	17.12±0.65	28.49±1.58	57.01±4.80**	71.29±8.96**	110.78±8.26**	156.94±12.93**	159.73±20.96*
1D11+enalapril	19.52±0.72	24.78±0.90	59.07±3.93**	77.30±1.90**	111.91±14.17**	155.20±10.17**	99.61±13.76°
Control	20.57±2.03	21.70±1.05	29.85±1.93	39.03±2.96	50.44±3.62	57.98±6.42	62.84±13.34

* Before treatment.
Values are expressed as mean±SE. **p<0.01 vs control, °p<0.05 vs 13C4.
Therapies were given from 52 to 61 weeks after disease induction by streptozotocin (60 mg/kg i.v.).

Fig. 8